

FORM PTO-1449

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEINFORMATION DISCLOSURE
STATEMENT BY APPLICANT

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ATTY. DOCKET NO.
I-2-55.4USSERIAL NO.
09/851,740APPLICANT
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~~2003~~ 2667

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AB	AA*	4	4	7	0	1	3	8	9/84	Gutlber			
AB	AB*	4	9	0	1	3	0	7	2/90	Gilhousen et al.			
AB	AC*	4	9	2	8	2	7	4	5/90	Gilhousen et al.			
AB	AD*	5	0	2	8	8	8	7	7/91	Gilmore			
AB	AE*	5	0	9	9	4	9	3	3/92	Zeger et al.			
AB	AF*	5	1	0	3	4	5	9	4/92	Gilhousen et al.			
AB	AG*	5	1	5	1	9	1	9	9/92	Dent			
AB	AH*	5	2	1	8	6	1	9	6/93	Dent			
AB	AI*	5	2	2	4	1	2	2	6/93	Bruckert			
AB	AJ*	5	2	3	7	5	8	6	8/93	Bottomley			
AB	AK*	5	2	3	5	6	1	2	8/93	Stilwell et al.			
AB	AL*	5	2	7	6	7	0	4	1/94	Dixon			
AB	AM*	5	3	4	3	4	9	6	8/94	Honig et al.			
AB	AN*	5	3	4	5	4	6	8	9/94	Bi			
AB	AO*	5	3	5	3	3	0	4	10/94	Mochizuki			
AB	AP*	5	3	7	7	2	2	5	12/94	Davis			
AB	AQ*	5	4	1	8	8	1	4	5/95	Hulbert			

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		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
													YES	NO
AB	AR*	S5	4	8	3	5	7	9		Japan			X	
AB	AS*	S5	7	3	2	1	0	7		Japan			X	
AB	AT*	9	3	0	6	5	5	0	4/93	PCT				

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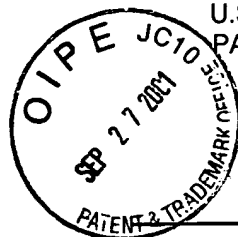
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AB	AU* 5 4 6 7 3 6 8	11/95	Takeuchi et al.			

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DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
					YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

AB	AV*	S. Moshavi, E. Kanterakis, and D. Schilling, "Multistage Linear Receivers for DS-CDMA Systems," (1994), (unpublished Ph.D. dissertation, City University of New York).
AB	AW*	H.V. Poor and S. Verdu, "Single-User Detectors for Multiuser Channels," IEEE Trans. Commun., vol. 36, no. 1, pp. 50-60, Jan. 1988.
AB	AX*	A.M. Monk, M. Davis, L.B. Milstein, and C.W. Helstrom, "A Noise-Whitening Approach to Multiple Access Noise Rejection-Part I: Theory and Background," IEEE J. Select. Areas Commun., vol. 12, no. 5, pp. 817-827, June 1994.
AB	AY*	M. Rupf, F. Tarkoy, and J.L. Massey, "User-Separating Demodulation for Code-Division Multiple-Access Systems," IEEE J. Select. Areas Commun., vol. 12, no. 5, pp. 786-795, June 1994.
AB	AZ*	S. Verdu, "Minimum Probability of Error for Asynchronous Gaussian Multiple-Access Channels," IEEE Trans. Inform. Theory, vol. IT-32, no. 1, pp. 85-96, Jan. 1986.
AB	BA*	Z. Xie, C.K. Rushforth, and R.T. Short, "Multiuser Signal Detection Using Sequential Decoding," IEEE Trans. Commun., vol. 38, no. 5, pp. 578-583, May 1990.
AB	BB*	A.J. Viterbi, "Very Low Rate Convolutional Codes for Maximum Theoretical Performance of Spread-Spectrum Multiple-Access Channels," IEEE J. Select. Areas Commun., vol. 8, no. 4, pp. 641-649, May 1990.
AB	BC*	P. Patel and J. Holtzman, "Analysis of a Simple Successive Interference Cancellation Scheme in a DS/CDMA System," IEEE J. Select. Areas Commun., vol. 12, no. 5, pp. 796-807, June 1994.

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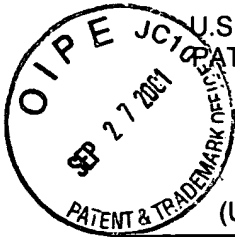
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AB	BD* 5 5 7 9 3 0 4	11/96	Sugimoto et al.			

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
					YES NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

AB	BE*	S. Kubota, S. Kato, and K. Feher, "Inter-Channel Interference Cancellation Technique for CDMA Mobile/Personal Communication Base Stations," Proc. IEEE Int. Symp. Spread Spectrum Tech. Appl. (ISSSTA '92), pp. 91-94, Nov. 1992).
AB	BF*	P. Dent, B. Gudmundson, and M. Ewerbring, "CDMA-IC: A Novel Code Division Multiple Access Scheme based on Interference Cancellation," Proc. PIMRC, Boston, MA, Oct. 1992, pp. 98-102.
AB	BG*	M.K. Varanasi and B. Aazhang, "Multistage Detection in Asynchronous Code-Division Multiple-Access Communications," IEEE Trans. Commun., vol. 38, no. 4, pp. 509-519, Apr. 1990.
AB	BH*	R. Kohno, H. Imai, M. Hatori, and S. Pasupathy "An Adaptive Canceller of Cochannel Interference for Spread-Spectrum Multiple-Access Communication Networks in a Power Line," IEEE J. Select. Areas Commun., vol. 8, no. 4, pp. 691-699, May 1990.
AB	BI*	Y.C. Yoon, R. Kohno, and H. Imai, "A Spread-Spectrum Multiaccess System with Cochannel Interference Cancellation for Multipath Fading Channels," IEEE J. Select. Areas Commun., vol. 11, no. 7, pp. 1067-1075, Sept. 1993.
AB	BJ*	M.K. Varanasi and B. Aazhang, "Near-Optimum Detection in Synchronous Code-Division Multiple-Access Systems," IEEE Trans. Commun., vol. 39, no. 5, pp. 725-736, May 1991.
AB	BK*	D. Divsalar and M.K. Simon, "Improved CDMA Performance using Parallel Interference Cancellation," MILCOM'94, Fort Monmouth, NJ, Oct. 1994.
AB	BL*	K.S. Schneider, "Optimum Detection of Code Division Multiplexed Signals," IEEE Trans. Aerospace Electronic. Syst., vol. AES-15, no. 1, pp. 181-185, Jan. 1979.

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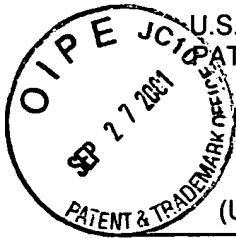
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					YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

AB	BM*	R. Lupas and S. Verdu, "Linear Multiuser Detectors for Synchronous Code-Division Multiple-Access Channels," IEEE Trans. Inform. Theory, vol. 35, no. 1, pp. 123-136, Jan. 1989.
AB	BN*	R. Lupas and S. Verdu, "Near-Far Resistance of Multiuser Detectors in Asynchronous Channels," IEEE Trans. Commun., vol. 38, no. 4, pp. 496-508, Apr. 1990.
AB	BO*	Z. Zvonar and D. Brady, "Coherent and Differentially Coherent Multiuser Detectors for Asynchronous CDMA Frequency-Selective Channels," Proc. IEEE MILCOM'92, pp. 442-446.
AB	BP*	Z. Xie, R.T. Short, and C.K. Rushforth, "A Family of Suboptimum Detectors for Coherent Multiuser Communications," IEEE J. Select. Areas Commun., vol. 8, no. 4, pp. 683-690, May 1990.
AB	BQ*	A. Kajiwarra and M. Nakagawa, "Microcellular CDMA System with a Linear Multiuser Interference Canceller," IEEE J. Select Areas Commun., vol. 12, no. 4, pp. 605-611, May 1994.
AB	BR*	B. Aazhang, B. Paris, and G.C. Orsak, "Neural Networks for Multiuser Detection in Code-Division Multiple-Access Communications," IEEE Trans. Commun., vol. 40, no. 7, pp. 1212-1222, July 1992.
AB	BS*	R.A. Iltis and L. Mailaender, "An Adaptive Multiuser Detector with Joint Amplitude and Delay Estimation," IEEE J. Select. Areas Commun., vol. 12, no. 5, pp. 774-785, June 1994.
AB	BT*	D.S. Chen and S. Ray, "An Adaptive Multiuser Receiver for CDMA System," IEEE J. Select. Areas Commun., vol. 12, no. 5, pp. 808-816, June 1994.

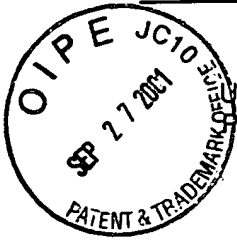
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						YES	NO

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AB	BU*	A. Duel-Wallen, "Decorrelating Decision-Feedback Multiuser Detector for Synchronous Code-Division Multiple-Access Channel," IEEE Trans. Commun., vol. 41, no. 2, pp. 285-290, Feb. 1993.
AB	BV*	L. Wei and C. Schlegel, "Synchronous DS-SSMA System with Improved Decorrelating Decision-Feedback Multiuser Detection," IEEE Trans. Veh. Technol., vol 43, no. 3, pp. 767-772, Aug. 1994.
AB	BW*	Jalloul, Louary M.A. and Holtzman, Jack M., "Performance Analysis of DS/CDMA with Noncoherent M-ary Orthogonal Modulation in Multipath Fading Channels," WINLAB, Dept. Of Electrical Engineering, Rutgers, The State University of New Jersey.
AB	BX*	Patel, Pulin and Holtzman, Jack, "Analysis of a Simple Successive Interference Cancellation Scheme in DS/CDMA System," WINLAB, Dept. Of Electrical Engineering, Rutgers, The State University of New Jersey.
AB	BY*	M. Kawabe, T. Kato, A. Kawahashi, T. Sato and A. Fukasawa, "Advanced CDMA Scheme Based on Interference Cancellation"
AB	BZ*	S. Tachikawa, "Characteristics of M-ary/Spread Spectrum Multiple Access Communication Systems Using Co-Channel Interference Cancellation Techniques"

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